

REMARKS/ARGUMENTS

Re-examination and favorable reconsideration in light of the above amendments and the following comments are respectfully requested.

Claims 11 - 24 are pending in the application. Currently, all claims stand rejected.

By the present amendment, claim 11 has been amended for editorial purposes and not for reasons relating to patentability.

In the office action mailed June 26, 2007, claims 11 - 24 are rejected under 35 U.S.C. 112, first paragraph as failing to comply with the written description requirement and the enablement requirement.

The foregoing rejections are traversed by the instant response.

The rejection on the grounds that Applicants have failed to comply with the written description requirement fails to state a reason for this rejection. For the purposes of this response, it has been assumed that the reason is the same as the reason for making the non-enablement rejection.

Thus, with respect to both of the rejections under section 112, first paragraph, Applicants state that, in the position shown in Figure 4, the roof is stored in the boot (see paragraph [0028] and the lateral panels are deployed as in Figures 2 and 3 (see paragraphs [0057] to [0061] and paragraph [0064]). Paragraphs [0063] to [0067] clearly disclose how, starting from the position of Figure 4 with the roof open and folded in the boot and with the lateral panels 8a, 8b deployed on both sides of the central panel 7 in horizontal position, the lateral panels 8a, 8b pivot towards their respective retracted position with respect to the central panel 7 when the latter pivots forwards in the direction of arrow 58.

The panels 8a, 8b remain in their pivoted position below the central panel 7 due to the urging action of springs 52 in the horizontal position of the central panel 7 as shown in Figures 5 and 6 as well as in the titled position of said central panel 7, shown in Figure 7 and clearly disclosed in paragraph [0056].

Paragraphs {0057} to [0061] clearly disclose that, starting from the pivoted position of Figures 5 - 7 of the lateral panels 8a, 8b under the action of return springs 52 which urge stops 46 towards the rear, the deployment of the lateral panels 8a, 8b with respect to the central panel 7 is controlled by the nozzles 50 of the stops 46 which abutted against and were stopped by a complementary body against the effect of said return springs 52, for instance by retainer 54 of zone 1a of the roof (see Figure 4).

It can be seen from the foregoing that the application is internally consistent and complete and that, as a consequence, the claims are also internally consistent and complete and do not preclude a search of the prior art. The Examiner is hereby requested to withdraw the rejections under section 112, first paragraph.

The non-entry of the substitute specification is duly noted. A marked up copy of the changes to the original specification is enclosed herewith. Further, minor changes have been made to the specification for editorial reasons. None of the amendments are believed to raise any issue of new matter.

The instant application is believed to be in condition for allowance. Such allowance is respectfully solicited.

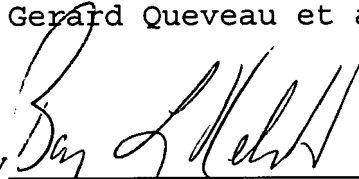
Should the Examiner believe an additional amendment is needed to place the case in condition for allowance, the Examiner is hereby invited to contact Applicants' attorney at the telephone number listed below.

No fee is believed to be due as a result of this response.
If any additional fees are required in connection with this
case, it is respectfully requested that they be charged to
Deposit Account No. 02-0184.

Respectfully submitted,

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By



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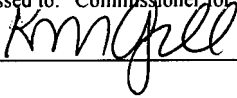
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I, Karen M. Gill, hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail in an envelope addressed to: "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313" on September 24, 2007.



SUBSTITUTE SPECIFICATION WITH MARKINGS

RETRACTABLE PARCEL SHELF SYSTEM FOR A CONVERTIBLE
VEHICLE WITH A FOLDING ROOFBACKGROUND OF THE INVENTION(1) Field of the Invention

[0001] The invention relates to a retractable parcel shelf system for a convertible vehicle with a folding roof.

(2) Prior Art

[0002] ~~Such a~~ A retractable rear roof system is in itself known and comprises at least a panel and means for pivoting this panel about an axis transversal to the longitudinal axis (forward direction) of the vehicle. Thus, the panel moves from a normal operating position (typically a horizontal position) to a stored or retracted position inside a storage space in the vehicle which classically allows to also fold away the folding roof.

[0003] Traditionally, the storage space is composed of the rear boot of the vehicle which typically receives both the retractable panel and the folded roof.

[0004] When the parcel shelf system comprises a single-piece panel extending over the entire transversal length of the passenger compartment of the vehicle, the size of this panel could cause difficulties if the panel is to be put into the retracted position inside the storage space, within a area of limited transversal dimensions located between the wheels.

[0005] For this reason in particular, we already know of parcel shelf systems comprising a central panel placed on either side of the central panel and movable with respect to the latter. Means for displacement are furthermore envisaged

to move the lateral panels with respect to the central panel, when the central panel is pivoted in either direction.

[0006] More precisely, the French application FR 02 05568 filed on 3 May 2002 under the applicant's name, discloses a retractable parcel shelf system comprising two lateral panels assembled so as to pivot about a substantially perpendicular axis to the upper surface of the central panel and embodied so that each lateral panel, in the pivoted position, is substantially stored under the central panel, which is itself in its retracted position. This system comprises means for controlling the inward pivot movement of each of the lateral panels with respect to the central panel whilst the central panel is pivoting from its normal position to its retracted position. Each of the lateral panels is controlled by the movement of the central panel via a set of connecting rods which bear upon corresponding surfaces of the body of the vehicle or upon load bearing points fixed to the central panel. In the normal position, substantially horizontal, of the central panel, the lateral panels are retained in their deployed position via springs, irrespective of the stored and folded or deployed and closed position of the roof.

[0007] In numerous cases, the rigid folding roof comprises on either side of the vehicle, irrespective of the type of folding roof, at least an arm whose lower end is pivot mounted onto the body of the vehicle about an transversal axis of said vehicle.

[0008] When the roof is folded so as to move from its closed position, over the passenger compartment of the vehicle, to its stored position in the boot of the vehicle, each pivoting arm moves from a substantially vertical position to a substantially horizontal position, which releases at each lateral end of the central panel an opening which is to be blanked off by the corresponding lateral panel. This is also the case for the corresponding back quarter light (or lateral

element of the rear section of the roof) equipped with internal fittings. This back quarter light, of reasonable thickness and whose fittings can often hide the aforementioned pivoting arms, or which can act as a pivoting arm, frees, when stored away in the boot with the other parts of the roof, an opening which is to be blanked off.

SUMMARY OF THE INVENTION

[0009] The purpose of the invention is to propose a retractable parcel shelf system of simple design, inexpensive and reliable that controls the deploying of the lateral panels when the central panel moves from its retracted position to its normal position although the roof is in its stored and folded position inside the boot of the vehicle, and the and the retraction of the lateral panels when the central panel pivots in the opposite direction.

[0010] The invention thus relates to a retractable parcel shelf system for a convertible vehicle with a rigid roof that folds into a storage space in the vehicle, this vehicle has a longitudinal axis and a front section and comprises a chassis and a passenger compartment, the system comprises a central panel and two lateral panels located on either side of the central panel, fixed to the latter, and movable with respect to the latter, as well as means for pivoting the central panel about at least one axis transverse to said longitudinal axis, from a normal operating position to a forward retracted position on the inside of the storage space, thus allowing to store the folded roof in the storage space or inversely to extract this roof from its stored position into a closed position above the passenger compartment, and means for moving the lateral panels with respect to the central panel.

[0011] According to the invention, this system is characterised in that it comprises stop means fixed to the central panel and moving with the same or with respect to the

same towards the front or the rear, these means being embodied such that when the central panel moves from its retracted position to its normal position, these stop means abut a complementary formation on the roof in its stored position in order to control the deployment of the lateral panels with respect to the central panel.

[0012] The lateral panels are therefore also solely deployed when the roof is in its stored position in the boot of the vehicle.

[0013] According to a beneficial alternative of the invention, the stop means are permanently manoeuvred towards the rear by elastic return means.

[0014] According to another beneficial alternative of the invention, the stop means are laid out at the free end of at least one arm assembled so as to pivot about a transversal axis of the body of the vehicle, and can be linked via a connecting rod to means for actuating the corresponding lateral panel.

[0015] According to an advantageous alternative of the invention, each lateral panel is assembled so as to pivot about a corresponding axis substantially perpendicular to the upper surface of the central panel. Each connecting rod is linked to the corresponding lateral panel via a spherical joint located with respect to said axis so that a relative forward displacement of each connecting rod with respect to the central panel pivots the corresponding lateral panel towards its deployed position.

[0016] Moreover, to obtain an efficient mechanical control of the parcel shelf system, it is also recommended that the movable stop is linked to a bar extending transversally with respect to the longitudinal axis of the vehicle and which it is attached to the chassis of the vehicle, and the central panel is assembled so as to pivot with respect to this bar, by means of at least a pair of articulated bars.

[0017] Preferably, the system comprises a stop linked to the aforementioned bar in order to control each lateral panel.

[0018] The system is thus made safe. Furthermore, the parcel shelf system thus constitutes a sub-unit which is attached to said bar and which can be assembled as such, onto a vehicle, this sub-unit being attached to the vehicle via the fixation means of said bar.

[0019] According to another feature of the invention, it is advantageously envisaged that in the retracted position, the central panel and the lateral panels are tilted in a substantially vertical position and, during this tilting, the connecting rod operates on the concerned articulated arm in order to put it into a substantially vertical position, so that the roof can pass by.

[0020] Thus, an appropriate space is created to allow the roof to pass by.

[0021] Also to be note is that advantageously, in the normal operating position of the central panel (typically horizontal or substantially horizontal), although the roof is closed above the passenger compartment of the vehicle, the concerned stop is manoeuvred towards the rear thanks to the return system and thus retains the lateral panels in a retracted position with respect to the central panel.

[0022] As previously indicated, the number of movements of the lateral panels is limited and the speed of the folding manoeuvres of the roof is optimised (because the lateral panels are already retracted).

[0023] The invention also relates to a convertible vehicle with a rigid folding roof comprising a parcel shelf system according to the first version of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

[0024] A more detailed description of the invention follows with reference to the annexed drawings given by way of example and non-restrictive and in which:

[0025] —~~drawing~~ FIGURE 1 is a partial diagrammatic top view of a convertible vehicle with a rigid folding roof capable of receiving a parcel shelf system according to the invention;

[0026] —~~drawing~~ FIGURE 2 diagrammatically shows the workings of the central panel and the lateral panels seen three quarters to the rear corresponding to an embodiment of the parcel shelf system according to the invention;

[0027] —~~drawing~~ FIGURE 3 shows an enlarged localised view, seen three quarters to the underneath staring from the front, of the driving mechanism of one of the lateral panels of the system in ~~drawing~~ FIGURE 2;

[0028] —~~drawing~~ FIGURE 4 shows a part of the mechanism of the panels, when the roof is stored in the boot (convertible position), along a cross section made in the vertical plane 4 in ~~drawing~~ FIGURE 3;

[0029] —~~drawing~~ FIGURE 5 is a localised side view (arrow V in ~~drawing~~ FIGURE 3) of the mechanism of the panels when the roof is closed above the passenger compartment, and that the panels are retracted;

[0030] —~~drawing~~ FIGURE drawing 6 shows a localised zone of the central panel with, below, one of the lateral panels in the retracted position (seen in the direction of the arrow VI in ~~drawing~~ FIGURE 5);

[0031] —~~drawing~~ FIGURE 7 shows, as in ~~drawing~~ FIGURE 5, a side view of the mechanism of the panels when the panels tilt to allow the roof to pass by.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT(S)

[0032] In ~~drawing~~ FIGURE 1, the embodiment shows a convertible vehicle 1 with a rigid folding roof 1a comprising a section of front roof 2 and a section of rear roof 3 which are movable

with respect to the vehicle and one with respect to the other in order to be folded respectively into positions 2a and 3a inside the boot 4 whose lid 5 can open from the front to the rear into position 5a to allow the sections of the roof to pass by. More than two sections or less than two sections can be envisaged for the roof 1a. If, as is normally the case, the roof 1a has several sections, these sections are movable with respect to each other so as to articulate from a deployed position (substantially aligned above the passenger compartment) and a folded position, stored in the boot 4 in a stacked state in ~~drawing~~ FIGURE 1 (the rear section 3a having the front section 2a above it so that the two sections are placed substantially horizontally, one above the other).

[0033] Thus, when it is closed above the passenger compartment (on the left in ~~drawing~~ FIGURE 1), the roof 1a is stretched horizontally, whereas it is folded, in the boot, in its open state, stored in the boot (to the right in ~~drawing~~ FIGURE 1; dotted lines 2a and 3a).

[0034] The vehicle 1 comprises a parcel shelf system 6 which is represented in ~~drawing~~ FIGURE 1 by a continuous line, in its normal operating position, in this particular case substantially horizontal, and by dashes in its retracted position, in this example a substantially vertical position to the front of the boot.

[0035] As can be diagrammatically seen in ~~drawing~~ FIGURE 2, the parcel shelf system comprises a central panel 7 and two lateral panels 8a, 8b located on either side of the central panel, in the transversal direction 9 of the vehicle which in this instance is perpendicular to the longitudinal direction 100 (of forward direction) of this vehicle.

[0036] The lateral panels 8a, 8b are movable in relation to the central panel 7 so as to take either a deployed position (~~drawing~~ FIGURE 2 or ~~drawing~~ FIGURE 3 for the panel 8a) or

retracted position in relation to it (~~drawing~~ FIGURE 6 or 7 of the same lateral panel).

[0037] The parcel shelf system 6 comprises means for pivoting the central panel 7 in the two directions about at least one transversal axis (parallel to the transversal direction 9), from its normal substantially horizontal position to a retracted position, stored inside the boot 4 and allowing to fold the two sections 2, 3 of the folding roof inside this boot.

[0038] The parcel shelf system 6 also comprises means for displacing the lateral panels 8a, 8b with respect to the central panel 7.

[0039] Even if other systems could be envisaged for such a displacement (vertical tilting system for the lateral panels about lateral axes parallel to the axis 100, or a runner system allowing to slide the lateral panels in relation to the central panel, parallel to the axis 9), it was envisaged in this instance that each of the lateral panels be assembled pivoting about an axis 10 (see ~~drawing~~ FIGURE 3 for panel 8a) substantially perpendicular to the upper surface 11 of the central panel 7. The axis 10 is fixed so that each of the lateral panels 8a, 8b, in the retracted position, is substantially pivoted under the central panel 7.

[0040] The system 6 further comprises means for controlling the pivoting of each of the lateral panels with respect to the central panel 7, in connection with the folding roof.

[0041] In some of the ~~drawings~~ FIGURES, the markings AV and AR respectively define the front and rear sides of the concerned zones or of the vehicle itself (the front being pointed in the forward direction of the vehicle). The arrow 12 shows the direction towards the inside of the vehicle, in the direction of the longitudinal axis 100 through which the longitudinal plane of symmetry of the vehicle passes, whereas the arrows 13

and 14 respectively schematise (in particular in drawing 3) the respective direction upwards and downwards.

[0042] As can be seen in particular in drawings 2 and 3, each of the lateral panels has, in the vicinity of its front inner corner 16, an extension 18 extending transversally inwards (in the direction of the arrow 12), this being for the panel 8a in drawing 3 (under the central panel 7).

[0043] The extension 18 bears a pivot body capable of co-operating with a complementary coaxial pivot body fixed under the central panel. Any one of these pivot bodies can be a male body, the other being a circular female body capable of surrounding the male body.

[0044] As can be seen in different ~~drawings~~ FIGURES, the central panel 7 is, by means of at least one pair of arms 20, 22, articulated through tilting parallel to the axis 9 between a normal operating position, typically a horizontal position, (see ~~drawings~~ FIGURES 2 to 5) and a retracted position, typically a substantially vertical forward and downward tilted position (see ~~drawing~~ FIGURE 7), for example against the front facing wall delimiting the boot.

[0045] The central panel 7 preferably comprises two pairs of arms, respectively 20a, 20b; 22a, 22b in ~~drawing~~ FIGURE 2. The arms 20a, 20b are linked together via a rigid transversal rail parallel to the axis 9.

[0046] The arms 20a, 22a; 20b, 22b of each pair are pivot assembled on an articulated part, respectively 26, 28 (~~drawing~~ FIGURE 2).

[0047] Each articulated part 26, 28 is solidly fixed to a transversal rod 30, parallel to the axis 9. The rod 30 is fixed to the vehicle, typically its chassis schematised by 34 in figures 4 and 5, by means of plates 32a, 32b extending substantially parallel to the axis 100 and located in the vicinity of lateral ends of the rod 30 (see ~~drawing~~ FIGURE 2).

[0048] The arms of the two pairs 20, 22 are articulated, at their ends, along axes parallel to each other and to the transversal axis 9, respectively with respect to the panel 7 and in relation to the articulated parts 26, 28.

[0049] In order to ensure the tilting of the central panel, the rear arms 22a, 22b are longer than the front arms 20a, 20b and are arched so as to be longer horizontally compared to vertically. Furthermore, the four concerned zones of articulation (marked 36a, 36b for the arm 20a, and 38a, 38b for the second articulated arm 22a) are such that the rear point 38b is lower than the front point 36b.

[0050] Thus, if for example we compare ~~drawings~~ FIGURES 4 and 7, we note that the panel 7 (and with it the lateral panels, including the panel 8a) tilt via deformation of the malleable parallelograms constituted by the panel 7, the concerned fixed articulated part, such as 26, and the set of arms 20, 22.

[0051] The obtained retraction of the panel 7 is typically controlled by an independent control system (not represented), such as a motor with a final drive shaft engaged with the panel.

[0052] The lateral panels 8a, 8b are each articulated towards the lateral ends of the panel 7, by means of a connecting rod, 40a for the panel 8a, 40b for the panel 8b.

[0053] The retraction of the lateral panels in relation to the central panel being, in the considered example, performed via rotation about the axis 10 by means of the aforementioned connecting rods and therefore being identical for the two panels, we will only describe the related mechanism for the panel 8a.

[0054] Thus, a front end of the connecting rod 40a is linked, in the vicinity of the zone 18, to the panel 8a via a spherical joint 42. At the opposite end, the connecting rod 40a is articulated in rotation, about 44, with respect to an

articulated stop 46, itself pivot assembled about 48 with respect to the plate 32a.

[0055] The axes of articulation of the zones 44, 48 are parallel to the transversal axis 9 and respectively located towards the opposite ends of the stop 46 which has an elongated shape, in the form of an arm, with towards the end of the zone 44, a nozzle 50 pointing towards the rear.

[0056] A return spring 52 (~~drawing~~ FIGURE 2) naturally ~~displaces~~ urges the stop 46 towards the rear, and via the connecting rod 40a, 40b also ~~displaces~~ urges the corresponding lateral panel 8a, 8b in order to retain it in its retracted position in relation to the central panel, that being in the considered example rotated about the axis 10 so as to be dissimulated under the central panel 7 (position of ~~drawings~~ FIGURES 5, 6 and 7).

[0057] Given the above, we understand that in ~~drawings~~ FIGURES 2, 3 and 4, the deployment of the lateral panels with respect to the central panel 7 was controlled by the nozzle 50 of the stop 46 (or more precisely of each stop, as we recommend using a system thus designed for each lateral panel, as shown in ~~drawing~~ FIGURE 2) which abutted and was stopped by a complementary body against the effect of the return system.

[0058] According to the invention, this displacing of the movable stops 46 which controls the deployment of the lateral panels is obtained via contact with a zone of the roof 1a, advantageously the front end (or front zone) 2a located to the front of the roof (see ~~drawing~~ FIGURE 4).

[0059] This contact zone can be at the front of the front roof 2, if the folding of the roof (in this particular case its sections 2, 3) leads to this situation.

[0060] In figure 4, the protrusion 50 of the stop 46 penetrates into a ~~retained~~ retainer 54 substantially in the shape of a quarter circle equipped with an upper lip 55 and located at the front end of the stored roof (in this instance

the front section 2), for example designed to cover the transversal seal envisaged along the front edge (not represented) of the opening of the roof.

[0061] In this position, the roof is open, that being folded into the boot 4, whereas the central panel 7 is in the normal operating position (in this instance the horizontal position), the ~~manoeuvring~~ urging of the stops 46 against the return system ensuring the lateral deployment of the panels 8a, 8b.

[0062] In the illustrations, we also note that when the vehicle is no longer in this convertible configuration (roof stored in the boot), each stop 46 is naturally ~~manoeuvred~~ urged backwards by the return spring 52, so that the lateral panels are retracted (~~drawings~~ FIGURES 5, 6 and 7), which in particular frees a space allowing to displace the central panel from its normal operating position to its retracted position (tilted position in ~~drawing~~ FIGURE 7), facilitating the manoeuvring of the roof from its open roof position (convertible) to its closed roof position above the passenger compartment 56 (~~drawing~~ FIGURE 1).

[0063] To change from the open roof position of Figure 4 to that of the closed roof as in ~~drawing~~ FIGURE 5 (where the lateral panels are therefore retracted), we execute the intermediary stage in figure 7 which shows the central panel in its tilted position, remembering that the movement of the panel into this position implies the movement of the lateral panels into the same tilted position in relation to the horizontal, given the linkages that exist between them.

[0064] Starting from the open and folded roof position in ~~drawing~~ FIGURE 4, a means for controlling (not represented) drives the panel 7 forwards, which therefore makes it tilt via articulation about the arms 20, 22, in the direction of the arrow 58.

[0065] Right from the start of the pivoting of the central panel 7, the stop arms 46 ~~manoeuvred~~ urged backwards by the

spring 52 remain stationary in relation to the chassis of the vehicle, the nozzle 50 ~~pushes~~ presses against the folded roof.

[0066] Each of the connecting rods 40a, 40b, immobilised by the corresponding stop arms 46, retains the corresponding spherical joint 42, which pivots the lateral panel 8a, 8b towards its retracted position with respect to the central panel when the latter pivots.

[0067] When each lateral panel 8a, 8b attains its retracted position, the spherical joint 42 pulls the connecting rod 40a, 40b, and therefore the corresponding stop arm 46 forwards against the effect of the return spring 52 as far as the end of the forward pivoting movement of the central panel 7 when the latter has attained its tilted position (~~drawing~~ FIGURE 7).

[0068] Advantageously, to facilitate the movement of the roof, the stop arms 46 extend substantially vertically into the stored/tilted position of the panel 7, despite the forward pressure applied by the return spring 52 (see ~~drawing~~ FIGURE 7).

[0069] The panels being in their retracted position in ~~drawing~~ FIGURE 7, the movement of the roof above them and the unfolding of this roof as far as its closed position above the passenger compartment allow the central panel to return to its normal operating position as in ~~drawing~~ FIGURE 5.

[0070] The concerned control means (hydraulic, electric, etc.) thus in return ensure the tilting, via the arms 20, 22 of the panel 7 in the direction of the arrow 60 in ~~drawing~~ FIGURE 5, until the panels return to their horizontal position. In this embodiment, the lateral panels remain retracted, folded under the central panel when the roof does not apply any pressure on the stops.

[0071] In comparing ~~drawings~~ FIGURES 4 and 5 we also note that the central panel 7 is, in the normal operating position, further forward in the direction of the vehicle in the closed

position of the roof (~~drawing~~ FIGURE 5) than it is in the stored and folded position of this roof (~~drawing~~ FIGURE 4).

[0072] As schematised in ~~drawings~~ FIGURES 5 and 6, in the closed position of the roof, the lateral panels 8a, 8b are in their retracted position under the central panel 7 as the nozzle 50 of the stop 46 did not meet with any obstacle during the pivoting of the central panel 7 from its retracted position towards its normal operating position corresponding to the closed position of the roof.

[0073] This further forward position towards the front of the central panel 7 is made necessary because, as schematised in ~~drawing~~ FIGURE 6, the rear edge 7a of the central panel 7 must stop substantially before the front surface 300 of the rear lower edge 301 of the rear section of roof 3 in the deployed position of the roof 2, 3 above the passenger compartment 56 (see ~~drawing~~ FIGURE 1).

[0074] In the stored and folded position of the roof in the boot of the vehicle, the central panel 7 can be in its rear position in ~~drawing~~ FIGURE 4 obstructing the opening freed by the rear lower edge 301 also stored in the boot.

[0075] We also note that an alternative to return systems other than the torsion spring 52 can be used to manoeuvre and retain each stop 46 towards the rear, when there is no contact with the concerned zone of the roof. We can thus envisage a hydraulic jack or an arm coupled to an electric motor actuating the concerned stop.

[0076] The above is a description of lateral panels 8a, 8b, pivoting with respect to the central panel 7. We can also envisage lateral panels assembled so as to slide in a transversal direction of the vehicle. All that is required is to provide any known device allowing to transform a longitudinal relative displacement of the connecting rod 40a, 40b into a transversal relative displacement of the corresponding lateral panel 8a, 8b.